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NOTICE OF ALLOWANCE AND FEE(S) DUE

021567

7590

11/05/2002

WELLS ST. JOHN ROBERTS GREGORY & MATKIN P.S. 601 W. FIRST AVENUE SUITE 1300 SPOKANE, WA 99201-3828

PHAM, THANHHA S

ART UNIT CLASS-SUBCLASS

2813

438-770000

DATE MAILED: 11/05/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/602,395	06/22/2000	John T. Moore	MI22-1384	8705

TITLE OF INVENTION: METHODS OF FORMING OXIDE REGIONS OVER SEMICONDUCTOR SUBSTRATES

ſ	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
١	nonprovisional	NO	\$1280	\$0	\$1280	02/05/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- □ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



PART B - FEE(S) TRANSMITTAL



Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Washington, D.C. 20231

(703)746-4000 **Fax**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block I)

021567

SPOKANE, WA 99201-3828

11/05/2002

WELLS ST. JOHN ROBERTS GREGORY & MATKIN P.S. 601 W. FIRST AVENUE **SUITE 1300**

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the ISPTO on the date indicated helow

	nsmitted to the OSFTO, on the date mulcated below.	transi
(Depositor's name)		
(Signature)		
(Date)		

		are an area to the same and the	L MTODNELL DOCKETNO	CONFIDMATION NO
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/602 395	06/22/2000	John T. Moore	MI22-1384	8705

TITLE OF INVENTION: METHODS OF FORMING OXIDE REGIONS OVER SEMICONDUCTOR SUBSTRATES

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nonprovisional	NO	\$1280	\$0	\$1280	02/05/2003
EXAMI	NER	ART UNIT	CLASS-SUBCLASS		
PHAM, THA	ANHHA S	2813	438-770000		
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.		2. For printing on the patent from the names of up to 3 registered or agents OR, alternatively, (2) single firm (having as a member attorney or agent) and the nar	patent attorneys the name of a ber a registered		
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.		registered patent attorneys or agis listed, no name will be printed.			

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee categor	y or categories (will not be printed on the patent)	☐ individual ☐ corporation or other private group entity ☐ government				
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):					
□ Issué Fee	☐ A check in the amount	t of the fee(s) is enclosed.				
□ Publication Fee	Payment by credit card	☐ Payment by credit card. Form PTO-2038 is attached.				
Advance Order - # of Copies	☐ The Commissioner is h Deposit Account Number	☐ The Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number(enclose an extra copy of this form).				
Commissioner for Patents is requested to appl	y the Issue Fee and Publication Fee (if any) or to re-	e-apply any previously paid issue fee to the application identified above.				
(Authorized Signature)	(Date)					
other than the applicant; a registered attor interest as shown by the records of the Unite						
estimated to take 12 minutes to complete, completed application form to the USPTO case. Any comments on the amount of suggestions for reducing this burden, show Patent and Trademark Office, U.S. Departn	by 37 CFR 1.311. The information is required to the sto file (and by the USPTO to process) and 35 U.S.C. 122 and 37 CFR 1.14. This collection is necluding gathering, preparing, and submitting the the collection is the collection of the collection is the collection of the collection					
Under the Paperwork Reduction Act of collection of information unless it displays a	1995, no persons are required to respond to a valid OMB control number.					



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09/602,395	06/22/2000	John T. Moore	MI22-1384	8705
021567	7590 11/05/2002		EXAMIN	ER
WELLS ST. JOHN ROBERTS GREGORY & MATKIN P.S.			PHAM, THANHHA S	
601 W. FIRST A SUITE 1300	AVENUE		ART UNIT	PAPER NUMBER
SPOKANE, WA	A 99201-3828		2813	
		D	ATE MAILED: 11/05/2002	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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09/602,395	06/22/2000	John T. Moore	M122-1384	8705
021567 7	590 11/05/2002		EXAMIN	ER
WELLS ST. JOHN ROBERTS GREGORY & MATKIN P.S.			PHAM, THANHHA S	
601 W. FIRST AV SUITE 1300	'ENUE		ART UNIT	PAPER NUMBER
SPOKANE, WA 9	9201-3828		2813	-
UNITED STATES	8		DATE MAILED: 11/05/2002	

Notice of Possible Fee Increase on October 1, 2002

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2002, then the amount due may be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there may be an increase in fees effective on October 1, 2002. See Revision of Patent and Trademark Fees for Fiscal Year 2003: Notice of Proposed Rulemaking. 67 Fed. Reg. 30634, 30636 (May 7, 2002). Although a change to the amount of the publication fee is not currently proposed for October 2002, if the issue fee or publication fee is to be paid on or after October 1, 2002, applicant should check the USPTO web site for the current fees before submitting the payment. The USPTO Internet address for the fee schedule is: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of any fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after October 1, 2002 (or mailed with a certificate of mailing on or after October 1, 2002), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	
	00/602 205	MOORE, JOHN T.	
Notice of Allowability	09/602,395 Examiner	Art Unit	
	Thombho Pham	2813	
	Thanhha Pham	2813	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-I NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED 85) or other appropriate common RIGHTS. This application is	in this application. If not included nunication will be mailed in due cou	ırse. THIS
 This communication is responsive to 10/7/02 and interv The allowed claim(s) is/are 1-16. The drawings filed on 6/22/00 and correction 8/6/02 are 			
4. ☐ Acknowledgment is made of a claim for foreign priority a) ☐ All b) ☐ Some* c) ☐ None of the:	under 35 U.S.C. § 119(a)-(d)	or (f).	
 Certified copies of the priority documents h 			
Certified copies of the priority documents h			
Copies of the certified copies of the priority		ed in this national stage application	from the
International Bureau (PCT Rule 17.2(a))			
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priority			
(a) The translation of the foreign language provisions6. Acknowledgment is made of a claim for domestic priority			•
6. Acknowledgment is made of a claim for domestic phone	y under 55 0.0.0. 33 120 and	701 121.	
Applicant has THREE MONTHS FROM THE "MAILING DATE below. Failure to timely comply will result in ABANDONMENT	of this communication to file of this application. THIS TH	a reply complying with the requirer REE-MONTH PERIOD IS NOT EX	nents noted TENDABLE.
7. A SUBSTITUTE OATH OR DECLARATION must be su INFORMAL PATENT APPLICATION (PTO-152) which gives re	ubmitted. Note the attached E eason(s) why the oath or dec	XAMINER'S AMENDMENT or NOT aration is deficient.	ICE OF
 8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Drafts 1) hereto or 2) to Paper No (b) including changes required by the proposed drawing including changes required by the attached Examination 	ng correction filed, wh	ich has been approved by the Exa	
(c) I moduling changes required by the attached Exami			
Identifying indicia such as the application number (see 37 CF of each sheet. The drawings should be filed as a separate pa	R 1.84(c)) should be written on per with a transmittal letter add	the drawings in the top margin (not lressed to the Official Draftsperson.	the back)
 DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMENT FOR 	eposit of BIOLOGICAL MA R THE DEPOSIT OF BIOLOG	FERIAL must be submitted. Note SICAL MATERIAL.	e the
Attachment(s)			
 1 ☐ Notice of References Cited (PTO-892) 3 ☐ Notice of Draftperson's Patent Drawing Review (PTO-948 5 ☐ Information Disclosure Statements (PTO-1449), Paper Notice Examiner's Comment Regarding Requirement for Deposit of Biological Material 	5) 4☐ Intervi c.1 <u>1,1</u> 4,15 6⊠ Exami t 8⊠ Exami 9⊡ Other	of Informal Patent Application (PTC) ew Summary (PTO-413), Paper No ner's Amendment/Comment ner's Statement of Reasons for Allo CARL WHITEHEAD, JR.	· ·
	3	UPERVISORY PATENT EXAMINEF TECHNOLOGY CENTER 2800	

Application/Control Number: 09/602,395

Art Unit: 2813

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes 1. and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jennifer Taylor on 10/25/02.

The application has been amended as follows:

- In claim 1,
- ✓ line 4, change "the surface region" to the nitrogen-comprising surface region –

Allowable Subject Matter

- 2. Claims 1-16 are allowed.
- The following is an examiner's statement of reasons for allowance: It is not 3. obvious for those skilled in the art to suggest a method of forming an oxide region over a semiconductor substrate comprising forming a nitrogen-comprising surface region layer across at least some of a silicon surface of the semiconductor substrate, the nitrogen-comprising surface region extending no greater than 10 angstroms beneath the silicon surface and growing an oxide region from the at least some of the semiconductor substrate after forming said nitrogen-comprising wherein the nitrogen from the nitrogencomprising layer being dispersed within the oxide region as characteristics in claim 1 or 12.

Application/Control Number: 09/602,395

Art Unit: 2813

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Thanhha Pham whose telephone number is (703) 308-

6172. The examiner can normally be reached on Monday-Thursday 8:00 AM - 7:00

PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Carl Whitehead can be reached on (703) 308-4940. The fax phone

numbers for the organization where this application or proceeding is assigned are (703)

308-3432 for regular communications and (703) 308-7725 for After Final

communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0956.

Thanhha Pham November 4, 2002

> CARL WHITEHEAD, JIE PERVISORY PATENT EXAMINE

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TECHNOLOGY CENTER 2800